

## ABSTRACT

A data section is mapped such that the polarity of the signal level of each symbol is constantly inverted on a symbol by symbol basis. On the other hand, a header section is mapped such that the header section includes a distinguishing symbol for distinguishing the data section and the header section from each other, and such that the signal level of the distinguishing symbol is equal to the signal level of the symbol which is mapped immediately before the distinguishing symbol. Thus, data transfer, by which the header section and the data section can be distinguished from each other with certainty by an apparatus on the receiving side, is made possible.